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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/645,013	08/21/2003	Thomas R. Hektner	2949	6224
75	590 06/16/2004	06/16/2004 EXAMINER		INER
Beck & Tysver, P.L.L.C. 2900 Thomas Avenue S.			HAYES, MICHAEL J	
Suite 100	Avenue S.		ART UNIT	PAPER NUMBER
Minneapolis, N	MN 55416		3763	
			D'ATE MAIL ED: 06/16/200	4

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	/
	10/645,013	HEKTNER ET AL.	
Office Action Summary	Examiner	Art Unit	<u>.</u>
	Michael J Hayes	3763	
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address	
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period volume to reply within the set or extended period for reply will, by statute - Any reply received by the Office later than three months after the mailing - earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tim y within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONEI	nely filed s will be considered timely. the mailing date of this communication D (35 U.S.C. § 133).	1.
Status			
1) Responsive to communication(s) filed on 21 A	ugust 2003.		
2a) This action is FINAL . 2b) ⊠ This	action is non-final.		
3) Since this application is in condition for allowar	· · · · · · · · · · · · · · · · · · ·		
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.	
Disposition of Claims	·		
4) ☐ Claim(s) 1-8 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-3 and 5-8 is/are rejected. 7) ☐ Claim(s) 4 is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or			
Application Papers			
 9) ☐ The specification is objected to by the Examine 10) ☑ The drawing(s) filed on 21 August 2003 is/are: Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) ☐ The oath or declaration is objected to by the Ex 	a) accepted or b) objected t drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119			
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list 	s have been received. s have been received in Application ity documents have been receive In (PCT Rule 17.2(a)).	on No d in this National Stage	
Attachment(s) 1) Notice of References Cited (PTO-892)	() ☐ Intenditure ()	(DTO 442)	
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary (Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:		

Application/Control Number: 10/645,013

Art Unit: 3763

DETAILED ACTION

Drawings

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the apertures uncovered when spines are in a second position as recited in claim 4 must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

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Claim Objections

Claim 6 is objected to because of the following informalities: It appears from the disclosure that the claim intends to recite shape memory metal alloy spines. The term "memory" is missing in the claim recitation. Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 2, and 8 are rejected under 35 U.S.C. 102(b) as being anticipated by VIGIL et al. (US Patent No. 6,210,392). Vigil discloses an intravascular catheter having interior and exterior balloons forming a reservoir to deliver an agent through a micro spine surface in contact with a patient's vessel wall. See figs. 3a,b.

Claims 5, 6, and 7 are rejected under 35 U.S.C. 102(e) as being anticipated by MIRZAEE (US Patent No. 6,283,947). Mirzaee discloses an intravascular catheter having a balloon with a treatment surface and plurality of spines extending from the surface, a sheath covering the spines that operate in a super elastic state to deploy. (2:24-25, 4:9-20, fig. 7).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over VIGIL as applied to claim 1 above, and further in view of MIRZAEE. Vigil discloses the claimed invention except for using shape memory spines having a first and second position. Mirzaee teaches the use of shape memory spines to deploy into vessel to deliver agents within the tissue. It would have been obvious to one of ordinary skill in the art at the time of the invention to use the teachings of Mirzaee in the catheter of Vigil in order to easily advance the catheter through a vessel and thereafter inject into the vessel tissue without damaging the vessel while positioning the catheter.

Allowable Subject Matter

Claim 4 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael Hayes at (703) 305-5873. The examiner can usually be reached Monday -Thursday, 7:00-4:30, and on alternate Fridays. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brian Casler, can be contacted at (703) 308-3552. The fax number for submitting official papers is (703) 872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

mjh 14 June 2004

PRIMARY EXAMINER